

ASSIGNMENT

For valuable consideration, we, Martin Kaiser and Volker Sauermann, hereby assign to SAP Aktiengesellschaft, a German Corporation, having a place of business at Neuhofstrasse 16, D-69190 Walldorf, Germany, and its successors, and assigns (collectively, "the ASSIGNEE") our entire right, title and interest throughout the world in the inventions and improvements that are the subject of a patent document entitled

DATA ORGANIZATION FOR DATABASE OPTIMIZATION

and which is found in

U.S. patent application filed on July 11, 2003  
[ x ] under Application No. 10/617,141  
[ ] with Express Mail No. \_\_\_\_\_ (Application Number not yet known).

We authorize and request the attorneys of record or the attorney filing the application to insert into this assignment the filing date and serial number of the application when known.

This assignment includes the foregoing patent application or patent, all legal equivalents in any country, and all patents issuing from such legal equivalents; all patents, utility models, and design registrations granted by any jurisdiction for any of said inventions and improvements; and the right to claim priority based on the filing date of the foregoing patent application or patent under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. We authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

We hereby state and agree that no assignment, sale, agreement, or encumbrance has been or will be made or entered into that would conflict with this assignment.

We further agree for ourselves and our respective heirs, legal representatives, and assigns to provide to the Assignee promptly upon its request and at its expense all pertinent facts and documents relating to any of said inventions and improvements or said patents and legal equivalents as may be known and accessible to us and to testify as to the same in any interference, litigation, or proceeding relating thereto; and we agree promptly to perform such lawful acts and to sign such further applications, assignments, statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Inventor's Signature Martin Kaiser  
Martin Kaiser  
Witnessed by: Barbara Bean  
Signature  
BARBARA BEAN  
Print Name

04. Sept. 2003  
Date

Inventor's Signature \_\_\_\_\_  
Volker Sauermann  
Witnessed by: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Date

ASSIGNMENT

For valuable consideration, we, Martin Kaiser and Volker Sauermann, hereby assign to SAP Aktiengesellschaft, a German Corporation, having a place of business at Neudorfstrasse 16, D-69190 Walldorf, Germany, and its successors, and assigns (collectively, "the ASSIGNEE") our entire right, title and interest throughout the world in the inventions and improvements that are the subject of a patent document entitled

DATA ORGANIZATION FOR DATABASE OPTIMIZATION

and which is found in

U.S. patent application filed on July 11, 2003  
[ x ] under Application No. 10/617,141  
[ ] with Express Mail No. \_\_\_\_\_ (Application Number not yet known).

We authorize and request the attorneys of record or the attorney filing the application to insert into this assignment the filing date and serial number of the application when known.

This assignment includes the foregoing patent application or patent, all legal equivalents in any country, and all patents issuing from such legal equivalents; all patents, utility models, and design registrations granted by any jurisdiction for any of said inventions and improvements; and the right to claim priority based on the filing date of the foregoing patent application or patent under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. We authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

We hereby state and agree that no assignment, sale, agreement, or encumbrance has been or will be made or entered into that would conflict with this assignment.

We further agree for ourselves and our respective heirs, legal representatives, and assigns to provide to the Assignee promptly upon its request and at its expense all pertinent facts and documents relating to any of said inventions and improvements or said patents and legal equivalents as may be known and accessible to us and to testify as to the same in any interference, litigation, or proceeding relating thereto; and we agree promptly to perform such lawful acts and to sign such further applications, assignments, statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Inventor's Signature Martin Kaiser

Witnessed by: \_\_\_\_\_  
Signature

\_\_\_\_\_ Date

\_\_\_\_\_ Print Name

Inventor's Signature Volker Sauermann  
Volker Sauermann

Witnessed by: JARROLD BEAN  
Signature

25.8.2003  
Date

JARROLD BEAN  
Print Name